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COMMISSIONER OF PATENTS AND TRADEMARY Washington, D.C. 20231

FORM PTO-1449 (Modified)
LIST OF PATENTS AND PUBLICATIONS
FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)
Sheet 1 of 10

In the Application of O'Connor et al.

Serial No.: 09/922,218

Art Unit: Unassigned

Filed: August 3, 2001

Examiner: Unassigned

Title: HYDROGEL PARTICLE FORMULATION

U.S. PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Date	Name	Class	Sub Class	Filing Date
RB	AA-1	4,853,226	August 1, 1989	Michada et al.			
	AB-1	4,925,677	May 15, 1990	Feijen			
	AC-1	4,978,069	December 18, 1990	Anderson et al.		\supset	:
	AD-1	4,994,276	February 19, 1991	Baichwal et al.		Λ	
	AE-1	5,041,292	August 20, 1991	Feijen		Λ	
	AF-1	5,053,332	October 1, 1991	Cook et al.			
les	AG-1	5,700,459	December 23, 1997	Krone et al.			

FOREIGN PATENT DOCUMENTS

Exam. Init.	Ref. Desig.	Document No.	Publication Date	Country or Patent Office	Class	Sub Class	Trans YES	lation NO
RB	AH-1	WO 94/09819	May 11, 1994	РСТ				
	Al-1	WO 98/13798	May 26, 1995	РСТ	V			
	AJ-1	WO 96/12513	May 2, 1996	PCT	V			
RB	AK-1	WO 96/20022	July 4, 1996	РСТ				

Examiner: Raphil Dennett

Date Considered:

1-23-03



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Title: HYDROGEL PARTICLE FORMULATION

en	O AL-1	WO 97/48485	December 24, 1997	PĊT	 -	
	AM-1	WO 98/10750	March 19, 1998	PCT		
	AN-1	WO 00/15263	March 23, 2000	PCT		
	AO-1	0 357 401	March 7, 1990	EPO	\supset	
pp	AP-1	2 245 831	January 15, 1992	GB		

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

Exar	n. Init.	Ref. Desig.	Description
PB		AQ-1	Aasted, Bent, "Highly purified Agarose as Stacking Gel in Sodium Dodecyl Sulphate/Polyacrylamide-Gel Electrophoresis," <i>Biochem. J.</i> <u>189</u> :183-184 (1980)
		AR-1	Albright et al., "Diet, Apoptosis, and Carcinogenesis," <i>Adv. Exper. Med. And Biol.</i> 422:92-107 (1997)
		AS-1	Cadic-Amadeuf et al., "Inflammatory Reaction Induced by Agarose Implants Reduced by Adding Adrenal Cells to the Polymer," <i>ASAIO Journal</i> 38(3);M386-M389 (1992)
		AT-1	Anderson and Hagel, "Some Properties and Applications of Superose 6B," <i>Analytical Biochemistry</i> 141:461-465 (1984)
A)	AU-1	Andrasko, Jan, "Water in Agarose Gels Studied by Nuclear Magnetic Resonance Relaxation in the Rotating Frame," <i>Biophys. Journal</i> <u>15</u> (12):1235-1243 (1975)

Examiner:	Kachel 1	sennett	Date Considered:	4-23-85



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Exam. Init.	Ref. Desig.	Description
Pb	AV-1	Arndt, E.R. and Stevens, E. S., "Anhydro Sugar and Linkage Contributions to Circular Dichroism of Agarose and Carrageenan, With Conformational Implications," 303:73-78 (1997)
	AW-1	Arnott et al., "The Agarose Double Helix and Its Function in Agarose Gel Structure," <i>J. Mol. Biol.</i> <u>90</u> :269-284 (1975)
	AX-1	Arshady, Reza, "Microspheres for Biomedical Applications: Preparation of Reactive and Labelled Microspheres," <i>Biomaterials</i> <u>14</u> (1):5-15 (1993)
	AY-1	Artursson et al., "Biodegradable Microspheres, 1. Duration of Action of Dextranase Entrapped in Polyacrylstarch Microparticles in Vivo, " The Journal of Pharmacology and Experimental Therapeutics 231(3):705-712 (1986)
	AZ-1	Ауцик et al., "Method of Obtaining Agarose from Agar-Agur," <i>Lab Delo</i> <u>6</u> :370-371 (1976)
	BA-1	Bourrillos, et al., "An Improved Method for Preparing Agarose," <i>Biochim. Biophys. Acta</i> 111:334-336 (1965)
	BB-1	Brogren, Carl-Henrik, "Brownian Motion and Electrophorectic Transport in Agarose Gels Studied by Epifluorescence Microscopy and Single Particle Tracking Analysis," <i>J. Phys. Chem. B.</i> 101:5659-5663 (1997)
	BC-1	Bulone et al., "Mesoscopic Gels at Low Agarose Concentration: Perturbation Effects of Ethanol," <i>Biophysical Journal</i> 72:388-394 (1997)
W	BD-1	Muro-Cacho, Carlos A., "In Situ PCR: Overview of Procedures and Applications," Frontiers in Bioscience 2:15-19 (1997)

Examiner: Radial Bennett Date Considered: 4-23-6



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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 4 of 10

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Art Unit: Unassigned

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Title: HYDROGEL PARTICLE FORMULATION

Exam. Init.	- Ref. Desig.	Description
Ph	BE-1	Chan et al., "An Inexpensive Solid Medium for Obtaining Colony-Forming Units of Oral Spirochetes," <i>Oral Microbiology Immunology</i> <u>12</u> :372-376 (1997)
	BF-1	Coppi et al., "Polysaccharide Film-Coating Process for Freely Swellable Hydrogels," Pharmaceutical Development and Technology 3(3):347-353 (1998)
	BG-1	Cowan, D. E., "Thermophilic Proteins: stability and Function in Aqueous and Organic Solvents," <i>Comp. Biochem. Physiol.</i> <u>118A</u> (3):429-438 (1997)
	BH-1	Davies et al., "Improved Manufacture and Application of an Agarose Magnetizable Solid-Phase Support," <i>Appl. Biochem. Biotechnol.</i> <u>68</u> (1-2):95-112 (1997)
	BI-1	Davis, S.S. and Illum, L., "Polymeric Microspheres as Drug Carriers," <i>Biomaterials</i> 9(1):111-115 (1988)
	BJ-1	Draye et al., "In vitro Characteristics of bioactive Molecules from Dextran Dialdehyde Cross-Linked Gelatin Hydrogel Films," Biomaterials 19:99-107 (1998)
	BK-1	Eppstein et al., "Alternative Delivery Systems for Peptides and Proteins As Drugs," CRC Critical Reviews in Therapeutic Drug Carrier System 5(2):99-139 (1998)
	BL-1	Gehrke et al., "Enhanced Loading and Activity Retention of Bioactive Proteins in Hydrogel Delivery Systems," <i>Journal of Controlled Release</i> 55:21-33 (1998)
	BM-1	Gombotz, W. and Pettit, DK., "Biodegradable Polymers for Protein and Peptide Drug Delivery," <i>Bioconjugate Chem.</i> <u>6</u> (4):332-351 (1995)
Ub	BN-1	Gribnau et al., "Microscopic Observations on Commercial Sepharose Deviations From Normal Bead-Structure," <i>FEBS Letters</i> <u>57</u> (3):301-303 (1975)

Examiner:	Rachel	hounest	Date Considered:	4-27-83
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary) Sheet 5 of 10

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Art Unit: Unassigned

Filed: August 3, 2001

Examiner: Unassigned

Title: HYDROGEL PARTICLE FORMULATION

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_Exam. Init.	Ref. Desig.	Description
EP?	BO-1	Gustavsson et al., "Superporous Agarose Beads as a Hydrophobic Interaction Chromatography Support," <i>Journal of Chromatography A</i> 830:275-284 (1999)
	BP-1	Gustavsson et al., Continuous Superporous Agarose Beds for Chromatography and Electrophoresis," <i>Journal of Chromatography A</i> 832:29-39 (1999)
	BQ-1	Häglund et al., "Dissolution Controlled Drug Release From Agarose Beads," <i>Drug Development and Industrial Phamacy</i> 20(6):947-959 (1994)
	BR-1	Hjertén, S. and Liao, J., "High-Performance Liquid Chromatography of Proteins on Compressed, Non-Porous Agarose Beads," <i>Journal of Chromatography</i> 457:165-174 (1988)
	BS-1	Holloway et al., "Agarose-Encapsulated Adsorbents," <i>The International Journal of Artificial Organs</i> 2(1):81-86 (1979)
	BT-1	Howe, F.A., "Relaxation times in Paramagnetically Doped Agarose Gels as a Function of Tempature and Ion Concentration," <i>Magnetic Resonance Imaging</i> 6:263-270 (1988)
	BU-1	Ito et al., "Quantitative Prediction of <i>in Vitro</i> Drug Clearance and Drug Interactions from <i>in Vitro</i> data on Metabolism, Together with Binding and Transport," <i>Annu. Rev. Pharmacol. Toxicol.</i> 38:461-499 (1998)
	BV-1	Frank-Kamenetskii, M., " A Simple Solution to the Stability of the Double Helix?," <i>Nature</i> 324:p.305 (1986)
RB	BW-1	Kanke et al., "Clearance of ¹⁴¹ Ce-Labeled Microspheres from Blood and Distribution in Specific Organs Following Intravenous and Intraarterial Administration in Beagle Dogs," <i>Journal of Pharmaceutical Sciences</i> 69(7):755-762 (1980)

Examiner:	Rachel	Bennett	Date Considered:	4-23-03



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Exam. Init.	-Ref. Desig.	Description
Uh	BX-1	Kim et al., "Hydrogels: Swelling, Drug Loading, and Release," <i>Pharmaceutical Research</i> 9(3):283-290 (1992)
	BY-1	Kikuchi et al., "Effect of Ca ²⁺ -Alginate Gel Dissolution on Release of Dextran with Different Molecular Weights," <i>Journal of Controlled Release</i> <u>58</u> :21-28 (1999)
	BZ-1	Jani, G.K., and Gohel, M.C., "Effects of Selected formulation Parameters on the Entraptment of Diclofenac Sodium in Ethyl Cellulose Microspheres," <i>Journal of Controlled Release</i> 43:245-250 (1997)
	CA-1	Kuijpers et al., "Controlled Delivery of Antibacterial Proteins From Biodegradable Matrices," <i>Journal of Controlled Release</i> 53:235-247 (1998)
	CB-1	Li et al., "High-Performance Liquid Chromatography of Proteins on Deformed NonPorous Agarose Beads. Affinity Chromatography of Dehydrogenases Based on Cibacron Blue-Derivatized Agarose," <i>Preparative Biochemistry</i> 20(2):107-121 (1990)
	CC-1	Lösgen et al., "Large Agarose Beads for Extracorporeal Detoxification System," <i>Biomat. Med. Dev. Art. Org.</i> <u>6</u> (2):151-173 (1978)
	CD-1	Lundberg, P. and Kuchel, P.W., "Diffusion of Solutes in Agarose and Alginate Gels: ¹ H and ²³ Na PFGSE and ²³ Na TQF NMR Studies," <i>Mag. Res. Med.</i> <u>37</u> (1):44-52 (1997)
	CE-1	Maaloum et al., "Agarose Gel Structure Using Atomic Force Microscopy: Gel concentration and Ionic Strength Effects," <i>Electrophoresis</i> 19:1606-1610 (1998)
(Ub)	CF-1	Margel, S., "Agarose-Polyaldehyde Microsphere Beads: Synthesis and Biomedical Applications," <i>Applied Biochemistry and Biotechnology</i> 8:523-539 (1983)

Examiner:	Kachel	Bennott	Date Considered:	4-23-03
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Exam. Init.	Ref. Desig.	Description
Dely	CG-1	Margel, S., and Offarim, M., "Novel Effective Immunoadsorbents Based on Agarose-Polyaidehyde Microsphere Beads: Synthesis and Affinity Chromatography," <i>Analytical Biochemistry</i> 128:342-350 (1983)
	CH-1	McNeil, M.E. and Graham N. G., "Properties Controlling the Difusion and Release of Water-Soluble Solutes from Poly(Ethylene Oxide) Hydrogels: 3.Device Geometry," <i>J. Biomater. Sci. Polymer Edn.</i> 7(11):937-951 (1996)
	CI-1	Mitsuiki et al., j"Determination of Molecular Weight of Agars and Effect of the Molecular Weight on the Glass Transition," <i>J. Agric. Food Chem.</i> 47:473-478 (1999)
	CJ-1	Moussaoui et al., "Diffusion of Proteins in Sepharose C1-B Gels," <i>Journal of Chromatography</i> 591:115-120 (1992)
	CK-1	Nunjeri et al., "Hydrogel Beads Based on Amidated Pectins for Colon-Specific Drug Delivery: The Role of Chitosan in Modifying Drug Release," <i>Journal of Controlled Release</i> 46:273-278 (1997)
	CL-1	Munjeri et al., "An Investigation into the Suitability of Amidated Pectin Hydrogel Beads as a Delivery Matrix for Chloroquine," <i>Journal of Pharmaceutical Sciences</i> 87(8):905-908 (1998)
	CM-1	Nakano et al., "Agarose-Encapsulated Adsorbent Beads for Direct Hemoperfusion: Preparation and <i>in Vitro</i> Evaluation," <i>Chem. Parm. Buil.</i> 342:2591- 2598 (1986)
RB	CN-1	Okada et al., "Medical Application of Microencapsulating Hybridoma Cells in Agarose Microbeads "Cytomedicine": Therapeutic Effect on igG1 Plasmacytosis and Mesangio-Proliferative Glomerulonephritis in the Interleukin 6 Transgenic Mouse," <i>Journal of Controlled Release</i> 44:195-200 (1997)

Examiner:	Ruchel Bennett	Date Considered: 1(-73-03



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Exam. Init. Ref. Desig.		Description
W	CO-1	Okada, H. and Toguchi, H., "Biodegradable Microspheres in Drug Delivery," <i>Critical Reviews in Therapeutic Drug Carrier Systems</i> <u>12</u> (1):1-99 (1995)
CP-1		Patil, R. and Speaker, T.J., "Water-Based Microsphere Delivery System for Proteins," Journal of Pharmaceutical Sciences 89(1):9-15 (2000)
CQ-1		Patil et al., "Macroporous Poly(Sucrose Acrylate) Hydrogel for Controlled Release of Macromolecules," <i>Biomaterials</i> <u>17</u> (24):2343-2350 (1996)
	CR-1	Pernodet et al., "Pore Size of Agarose Gels by Atomic Force Microscopy," Electrophoresis 18:55-58 (1997)
	CS-1	Polson et al., "Preparation of Agarose with Low Net Negative Charge Density Using an Expensive Anion Exchanger," <i>Preparative Biochemistry</i> <u>16</u> (4):309-319 (1986)
	CT-1	Polson et al., "Agarose: A Possible Universal Gel Exclusion Agent," <i>Preparative Biochemistry</i> 14(2):173-179 (1984)
	CU-1	Ramzi et al., "Structure-Properties Relation for Agarose Thermoeversible Gels in Binary Solvents," <i>Macromolecules</i> 31:6106-6111 (1998)
	CV-1	Rees, D. A., "Structure Confirmation and Mechanism in the Formation of Polysaccharide Gels and Networks," <i>Advances in Carbohydr. Chem Biochem.</i> 24:3 + 7-332 (1969)
	CW-1	Schroeder et al., "Distribution of radiolabeled Subvision Microspheres After Intravenous Administration to Beagle Dogs," <i>J. Pharm. Sci.</i> <u>67</u> (4):504-509 (1978)
Pab	CX-1	Schroeder et al., "Physiological Effect of Subvision Microspheres Administered to Beagle Dogs," <i>J. Pharm. Sci.</i> <u>67</u> (4):508-513 (1978)

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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Exam. Init.	Ref. Desig.	Description
ph	CY-1	Sideman et al., "Tailor-Made Agarose-Based Reactive Beads for Hemoperfusion and Plasma Perfusion," <i>Applied Biochemistry Biotechnology</i> 10:167-182 (1984)
	CZ-1	Sjöbert et al., "How Interactions Between Drugs and Agaros-Carrageenan Hydrogels Influence the Simultaneous Transport of Drugs," <i>Journal of Controlled Release</i> <u>59</u> :391-400 (1999)
	DA-1	Stellwagen, J. and Stellwagen, N.C., "The Effect of Gel Structure on Matrix Orientation," <i>Electrophoresis</i> 13:595-600 (1992)
	DB-1	Stellwagen, J. and Stellwagen, N.C., "The Effect of Gel Structure on Matrix Orientation," <i>Electrophoresis</i> 13:595-600 (1992)
	DC-1	Stenekes, R.J.H. and Hennik, W.E., "Equilibrium Water Content of Microspheres Based on Cross-Linked Dextran," <i>International Journal of Pharmaceutics</i> 189:131-135 (1999)
	DD-1	Tanaka, Toyoichi, <i>Gels</i> 124-138
	DE-1	Thano et al., "Biodegradable Indium-111 Labeled Microspheres for <i>in Vivo</i> Evaluation of Distribution and Elimination," <i>Pharmaceutical Research</i> 12(12):2060-2064 (1995)
	DF-1	Vanbever et al., "Formulation and Physical Characterization of Large Porous Particles for Inhalation," 16(11):1735-1741 (1999)
	DG-1	Waki, S. and Harvey, J.D., "Study of Agarose Gels by Electro Microscopy of Freeze-Fractured Surfaces," Biopolymers <u>21</u> :1909-1926 (1982)
W	DH-1	Walker et al., "Preparation of Agarose Gels as Reference Substances for NMR Relaxation Time Measurement," <i>Magnetic Resonance Imaging</i> 6:215-222 (1988)

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DM	DI-1	Walker et al., "Preparation of Agarose Gels as Reference Substances for NMR Relaxation Time Measurement," <i>Magnetic Resonance Imaging</i> 6:215-222 (1988)
110	DJ-1	White, K.N., <i>Tanpakushitsu Kakusan Koso</i> <u>221</u> (13):1431-1436 (1977)

EXAMINER: Initial if citation considered whether or not the citation conforms with MPEP609. Draw a line through the

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